

## ECS Configuration Change Request

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CCF No. <u>98-0369</u>	Logged Date <u>03/25/98</u>	Rev. <u>—</u>	Request Type <u>CCR</u>
Priority Routine <input type="checkbox"/> Urgent <input type="checkbox"/> Emergency <input checked="" type="checkbox"/>	Affected Release <u>Version 2</u>	Change Class <u>II</u>	
Title (description) MODIS requires the following functional fix to continue development for launch using Toolkit: Bad Return Value from PGS_PC_Initcom (ECSed13404)			
Documents Affected  Release B.0 Toolkit Version Description Document For The ECS Project		Source Nos (RID, NCR, Action Item, GSFC CCR, etc.) or Tech Reference  NCR ECSed13404	
RTM Change <input type="checkbox"/> Start New Baseline <input type="checkbox"/>			
<b>Problem</b>  When using PGS_PC_Shell.sh to run PGEs, it was discovered that if the "Init string" (a parameter passed in to PGS_PC_Shell.sh) has the value of 0110 the Toolkit utility PGS_PC_InitCom fails, returning an exit code of 252. This causes PGS_PC_Shell.sh to terminate without executing the PGE. The "Init string" value of 0110 indicates that shared memory should NOT be used, Log files SHOULD be used and that execution should be terminated if there is a problem initializing the Log Files.  Currently it is not possible to execute a PGE under PGS_PC_Shell.sh (which all PGEs must execute under!) without invoking shared memory unless a work around to the intended design is used (i.e. it doesn't work like it is supposed to work but a work around is available).  The work around involves telling PGS_PC_Shell.sh to ignore the exit status from PGS_PC_InitCom indicating a problem with the Log Files. The DANGER with this work around is that the exit status indicating a problem with the Log Files is an important exit status that SHOULD be checked against in the event that there really is a problem with the Log Files. By ignoring the exit status the PGE can be made to run without shared memory but any true information about problems with the Log Files is lost.			
<b>Proposed Solution</b> Appropriate lines in the file /ecs/formal/TOOLKIT/PGS_SMF.c, in the function PGS_SMF_GetSysShm were changed. (See attached NCR for details.)			
<b>Impact Analysis:</b> Organizations Affected: BOO <input type="checkbox"/> Contracts <input type="checkbox"/> ECS Chief Eng <input type="checkbox"/> FOS <input type="checkbox"/> M&O <input checked="" type="checkbox"/> Procurement <input type="checkbox"/> QO <input type="checkbox"/> Rel. Dev <input checked="" type="checkbox"/> Rel. A <input type="checkbox"/> Rel. C <input type="checkbox"/> SCDO Arch. <input type="checkbox"/> Science Off <input checked="" type="checkbox"/> Security <input type="checkbox"/> Subcontract <input type="checkbox"/> Sys. Eng <input type="checkbox"/> Sys Verf Acpt <input type="checkbox"/>			
Cost: None <input checked="" type="checkbox"/> Small <input type="checkbox"/> Medium <input type="checkbox"/> Large <input type="checkbox"/> (Not exceeding \$100,000) (\$100,000 to \$500,000) (Over \$500,000)			
Schedule: None <input checked="" type="checkbox"/> Other _____			
Additional LOC _____		Man-Months _____	
Materials _____			
Originator <u>Darryl Arrington</u>		Signature <u>[Signature]</u> Date _____	
Office <u>MC</u>		Office Manager <u>[Signature]</u> Date <u>3/25/98</u>	
Disposition Approved <input checked="" type="checkbox"/> Approved w/Comment <input type="checkbox"/> Forward <input type="checkbox"/> Disapprove <input type="checkbox"/>			
Comments:  CCB Chairperson <u>[Signature]</u> <u>3/26/98</u> Date _____			

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